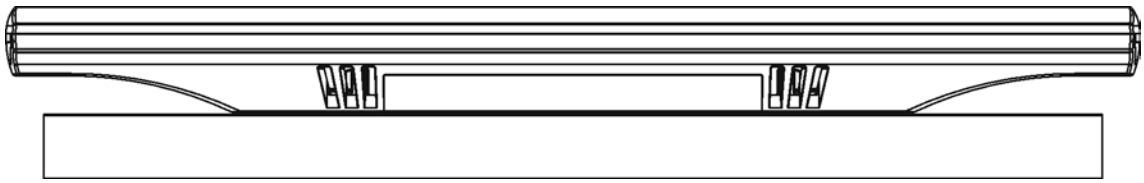
User instructions

ArcCove

ArcCove has a streamlined profile and various mounting options meaning greater flexibility for a wider variety of applications. The latest LED chip technology combined with a plug and play set up process insures incredible effects are simple to create.



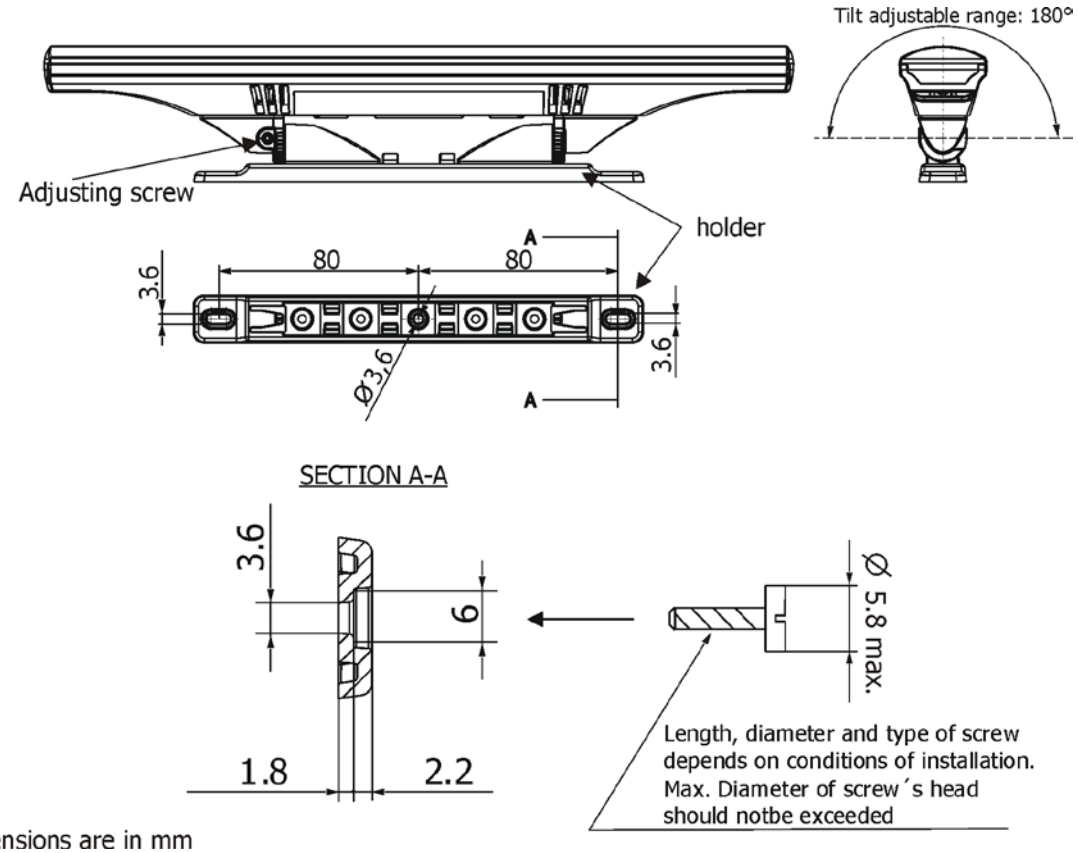
1. Attention

Do not install the module near high inflammable liquids or materials
Do not allow anything to rest on the module
Do not install the module near the naked flames
Do not install the module in dirty, dusty or badly ventilated location
Avoid using the unit in locations subject to possible impacts.
Avoid looking directly into the LED light beam at close range.
Fixture must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations
The product was designed for indoor use only.

2. Mounting

Mounting of the ArcCove depends on its variant. This product is available in three design variants.

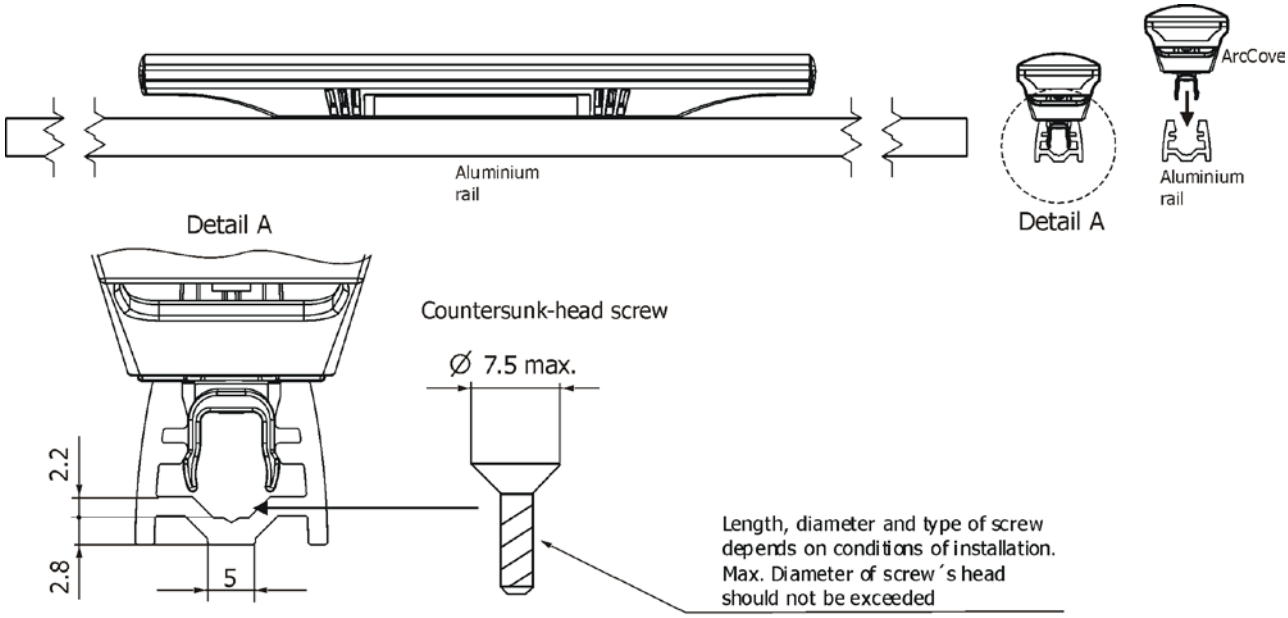
1. ArcCove - Standard - Adjustable Tilt



Dimensions are in mm

This variant is intended for direct mounting on a non-flammable flat surface via two mounting oval holes of a diameter of 3.6mm in the fixture holder. The light head can be tilted in range of 180°. Secure the adjusted position of the head via two adjusting screws, use the Allen key 1.5 (included).

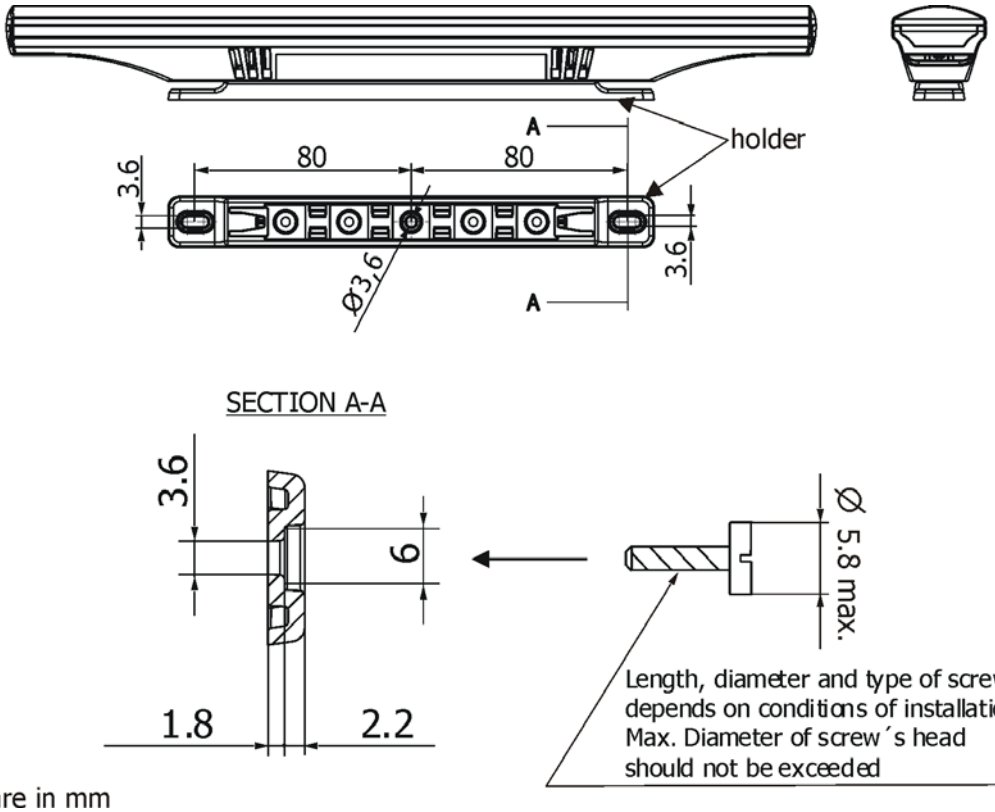
2. ArcCove - Rail Mount



Dimensions are in mm

This variant is intended for mounting into an aluminium rail. The rail is supplied in two lengths: 1.2m and 2.4m.
Fasten the rail on a suitable surface (drill holes into rail acording screws used) and snap the ArcCove into the rail.

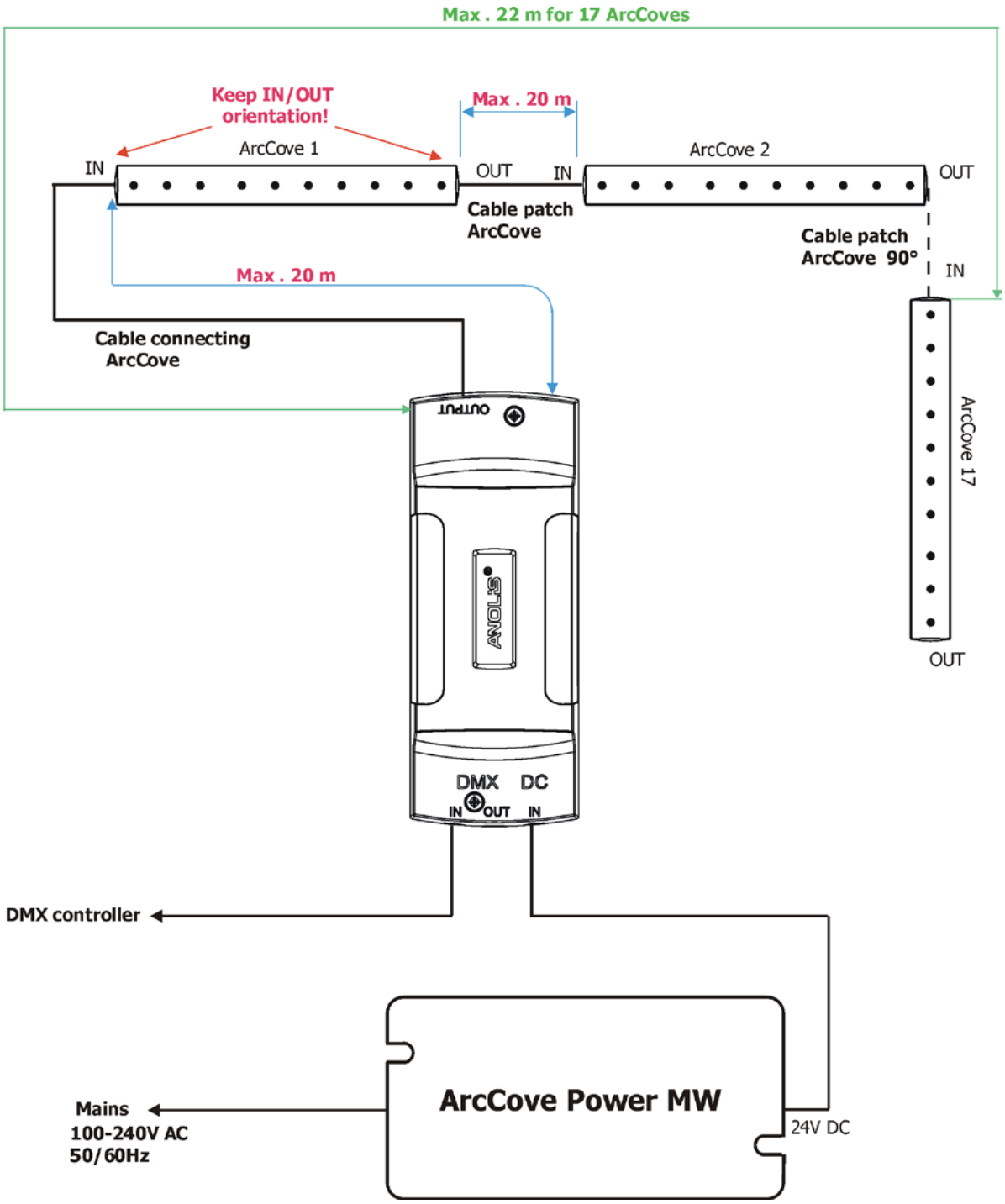
3. ArcCove - Straight - Low Profile



Dimensions are in mm

The variant is intended for mounting into a plastic holder, this holder is removable. Fasten the holder on a non-flammable flat surface via two oval holes of a diameter of 3.6mm in the fixture holder and snap the ArcCove into the holder.

3. ArcCove connection



Keep the following rules for the ArcCoves installation (for both operating modes):

1. Maximum distance from the ArcCove DataBox to the first Arcove must not exceed 20 metres.
2. Maximum distance between two adjacent ArCoves must not exceed 20 metres.
3. Do not mistake input a output of the ArcCove.

If two adjacent AcCove modules are not placed in a line (e.g. one is turned by 90°), you have to use the patch cable marked 90°. Max. number of connected ArcCoves depends on the length of installation and operating mode and is mentioned in the table below.

Standard mode	
Number of ArcCoves	**Max. allowed distance from ArcCove DataBox to last ArcCove (metres)**
17	22
16	25
15	28
14	32
13	35
12	40
11	44
10	50
9	57
8	65
7	75
6	90
5	100
4	80
3	60
2	40
1	20

High Power mode	
Number of ArcCoves	**Max. allowed distance from ArcCove DataBox to last ArcCove (metres))**
8	29
7	38
6	47
5	57
4	72
3	60
2	40
1	20

4. ArcCove DataBox

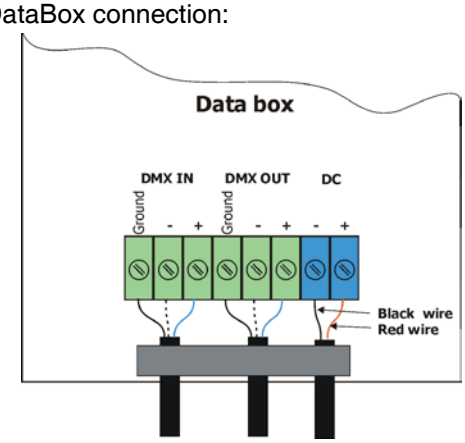
Mounting

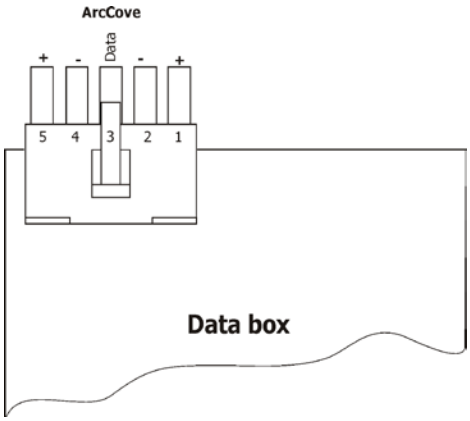
1. Unscrew two fastening screws on the top cover to get access to the display and mounting holes.
2. Fasten the bottom cover on a non-flammable flat surface via two mounting holes of a diameter of 4.5mm in this cover.
3. Connect all needed wires (cables), check their connection and after that connect the power supply to mains.

Do not connect the ArcCove, when the ArcCove DataBox is under voltage.

4. Set desired DMX address and operating mode.
5. Screw the top cover back.

DataBox connection:





DataBox menu

The 4-digit display with four buttons serves for switching the fixture to the desired operating mode (Standard or High Power),setting DMX address, software update and ArcCoves update etc.

Note: If DMX signal has been disconnected, DMX address blinks.

DMX address "**A001**"

Press the Enter button, the display will start blinking. Set desired DMX address by means of the Up or Down button and press the Enter button to save the address.

Menu "**Info**"

"**dM.In**" -readouts of DMX values
"**VEr.L**." - version of LED software in the ArcCove DataBox.
"**VEr.b**."- version of the ArcCove DataBox

Menu "**PerS**"

"**dM.Pr**." -DMX modes.
"Mod 1" - RGB
"Mod 2" - R1G1B1,R2G2B2..... (default)

"**M.F.Ti**." - Max. Fade time (0-25.5sec.). This adjusted fade time influences fade of Red, Green and Blue colour during DMX operation as follows:
1. If time between two receiving DMX values is > than fade time set in the item “M.F.Ti.“, the entire adjusted fade time will be used.
2. If time between two receiving DMX values is < than fade time set in the item “M.F.Ti.“, the adjusted fade time will be reduced to fill entire time between the two receiving DMX values.
E.g. “M.F.Ti.“=2 sec. and a fixture has received Red=0 DMX, after 5 seconds will receive Red=255 DMX. It means, that red will go to full intensity during 2 seconds.
“M Ftime“=8 sec. and fixture has received Red=0 DMX, after 5 seconds will receive Red=255 DMX. It means, that red will go to full intensity during 5 seconds. (Max, Fade time is reduced from 8 sec. to 5 sec.).

"**LoAd**" - operating mode.
"StAn" - Standard operating mode (max. 17 units per power supply)
"HiGh" - High Power operating mode (max. 8 units per power supply)

"**In.Po**" - Initial position (LEDs saturation after switching the ArcCove DataBox on without DMX connected).

	For SW variant
"rEd" - red LEDs saturation	"VArM" - warm white LEDs saturation

"GrEn" -green LEDs saturation
"BluE" - blue LEDs saturation
"SAVE" - saving set values
"**dF.SE**" - default setting

"COOL" -cool white LEDs saturation

Menu "**Man.C**" - manual control of LED colours.
"rEd" - red LEDs saturation
"GrEn" -green LEDs saturation
"BluE" - blue LEDs saturation

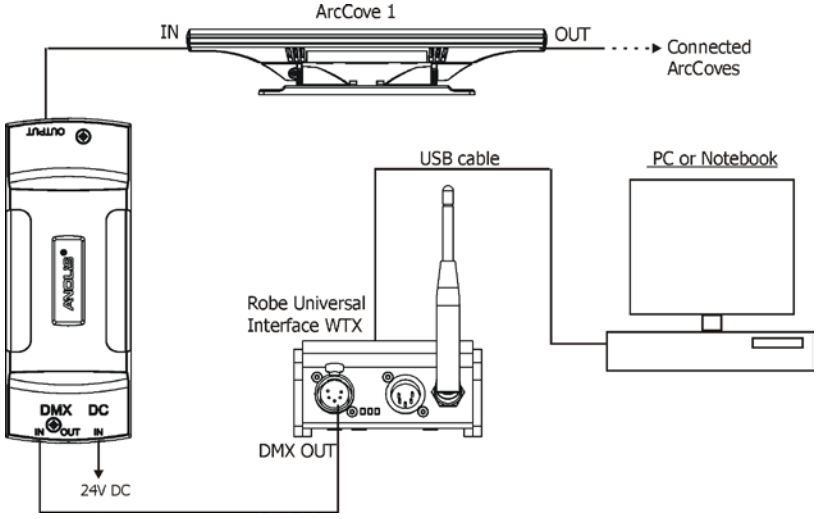
For SW variant
"VArM" - warm white LEDs saturation
"COOL" -cool white LEDs saturation

Menu "**St.AL.**" - Stand Alone setting.
"**Auto**" - this function allows you to select a program (Prg.1, Prg.2) which will be played automatically after switching the fixture on. Selected program will be played continuously in a loop. To disable this function, set OFF.
"**PLAy**" - this function allows to run one of the following programs:
"Prg.1" - changing colours in connected ArcCoves at the same time.
"Prg.2" - gradual changing colours in connected ArcCoves (colour chase)
"**S.tiM.**" - a step time (0.1-25.5 sec.). This item controls "speed" of the chase ("Prg.2").
"**F.tiM.**" - a fade time (0.1-25.5 sec.)
"**M.Mod**." - a number of conected ArcCoves (1-17). This number has to respond to the number of connected ArcCoves and has to be set correctly - also check setting of the item "LoAd".
If the "M.Mod." < than number of connected ArcCoves, not all ArcCoves will light.
If the "M.Mod." > than number of connected ArcCoves, a pause may appear in a program running.

Menu "**SPEC**" - special functions
"**uPd.L**" - update of connected ArcCoves
"**uPd.b**" - update of the ArcCove DataBox

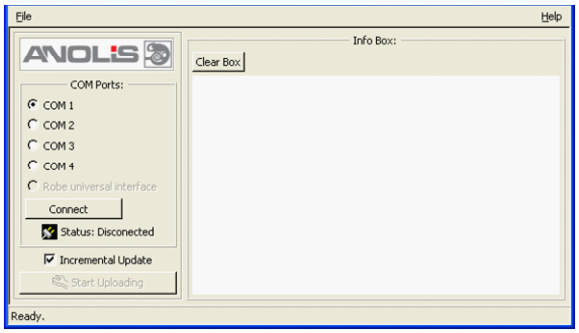
<u>To update software in the ArcCove DataBox</u> - "uPd.P"
The following are required in order to update software:
Notebook running Windows 95/98/2000/XP/7/8 or Linux
Robe Universal Interface or Robe Universal Interface WTX
Necessary cables (5-pin DMX cable,USB cable)
Note: The software update should execute a qualified person. If you lack qualification, do not attempt the update yourself and ask for help your Anolis distributor.
1. Download software from from Anolis web site at WWW.anolis.cz.
This software has name DSU_ArcCove_*number of version*.

2. Disconnect power supply from the ArcCove DataBox and connect the Robe Universal Interface to the DMX input of the ArcCove DataBox as shown on the picture below. If another ArcCove DataBox is connected to DMX output of this DataBox, it can stay connected.



3. Connect the ArcCove DataBox to the power and select "uPd.P" from the menu "SPEC", after that "YES" and the display reduces light intensity - device is in the update mode.

4. Unpack and run the update program. Select "Robe Universal Interface" from the option "COM Ports" and then click on the "Connect" button.



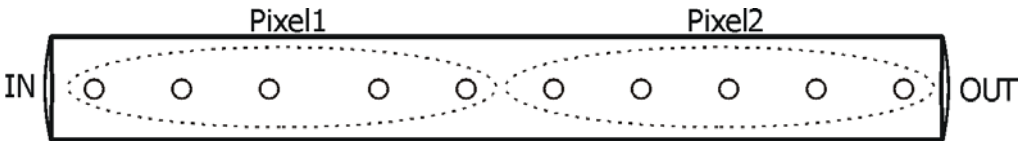
If the connection is OK, click on the "Start Uploading" button to start uploading. It can take a few minutes to perform software update. If the option "Incremental Update" is not checked, all processors will be updated (including processors with the same software version).
Avoid interrupting the process. Update status is being displayed in the Info Box window.
When the update is finished, the line with the text “The fixture is successfully updated" will appear in this window and the fixture´s display will show current DMX address. After the software update of the ArcCove DataBox you can also perform update of all connected ArcCoves as stated below.
Note: In the case of an interruption of the upload process (e.g. power cut), the DataBox keeps the updating mode and you have to repeat the software update again.

To update software in ArcCoves "uPd.L"
Note: the current software version of the ArcCove DataBox from the Anolis website has to be loaded into the the ArcCove DataBox. See the article above.
Select "uPd.L" from the menu "SPEC", select "YES" and update of ArcCoves will start, the display will show progress of the ArcCoves update in % F001, F002..... F100. When updating is finished, the current DMX address will be shown at the display.

5. ArcCove DataBox - DMX chart (RGB variant)

Version 1.1

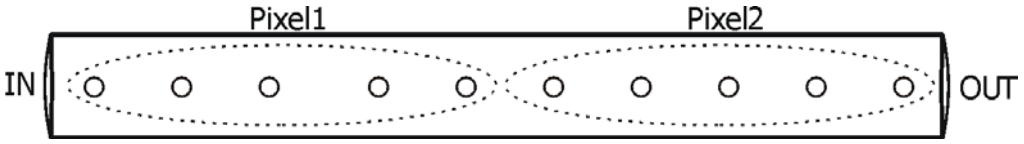
Mode 1/Channel	Mode 2/Channel (default)	Value	Function	Type of control
1	1	0-255	**ArCove 1 - Red pixel 1** Red LED saturation control (0-100%)	proportional
2	2	0-255	**ArCove 1 - Green pixel 1** Green LED saturation control (0-100%)	proportional
3	3	0-255	**ArCove 1 - Blue pixel 1** Blue LED saturation control (0-100%)	proportional
1	4	0-255	**ArCove 1 - Red pixel 2** Red LED saturation control (0-100%)	proportional
2	5	0-255	**ArCove 1 - Green pixel 2** Green LED saturation control (0-100%)	proportional
3	6	0-255	**ArCove 1 - Blue pixel 2** Blue LED saturation control (0-100%)	proportional
1	7	0-255	**ArCove 2 - Red pixel 1** Red LED saturation control (0-100%)	proportional
2	8	0-255	**ArCove 2 - Green pixel 1** Green LED saturation control (0-100%)	proportional
3	9	0-255	**ArCove 2 - Blue pixel 1** Blue LED saturation control (0-100%)	proportional
1	10	0-255	**ArCove 2 - Red pixel 2** Red LED saturation control (0-100%)	proportional
2	11	0-255	**ArCove 2 - Green pixel 2** Green LED saturation control (0-100%)	proportional
3	12	0-255	**ArCove 2 - Blue pixel 2** Blue LED saturation control (0-100%)	proportional
	:			
1	55	0-255	**ArCove 10 - Red pixel 1** Red LED saturation control (0-100%)	proportional
2	56	0-255	**ArCove 10 - Green pixel 1** Green LED saturation control (0-100%)	proportional
3	57	0-255	**ArCove 10 - Blue pixel 1** Blue LED saturation control (0-100%)	proportional
1	58	0-255	**ArCove 10 - Red pixel 2** Red LED saturation control (0-100%)	proportional
2	59	0-255	**ArCove 10 - Green pixel 2** Green LED saturation control (0-100%)	proportional
3	60	0-255	**ArCove 10 - Blue pixel 2** Blue LED saturation control (0-100%)	proportional
	:			
1	97	0-255	**ArCove 17 - Red pixel 1** Red LED saturation control (0-100%)	proportional
2	98	0-255	**ArCove 17 - Green pixel 1** Green LED saturation control (0-100%)	proportional
3	99	0-255	**ArCove 17 - Blue pixel 1** Blue LED saturation control (0-100%)	proportional
1	100	0-255	**ArCove 17 - Red pixel 2** Red LED saturation control (0-100%)	proportional
2	101	0-255	**ArCove 17 - Green pixel 2** Green LED saturation control (0-100%)	proportional
3	102	0-255	**ArCove 17 - Blue pixel 2** Blue LED saturation control (0-100%)	proportional



ArcCove DataBox - DMX chart (SW variant)

Version 1.1

Mode 1/Channel	Mode 2/Channel (default)	Value	Function	Type of control
1	1	0-255	**ArCove 1 - WW pixel 1** Warm white LED saturation control (0-100%)	proportional
2	2	0-255	**ArCove 1 - CW pixel 1** Cool white LED saturation control (0-100%)	proportional
1	3	0-255	**ArCove 1 - WW pixel 2** Warm white LED saturation control (0-100%)	proportional
2	4	0-255	**ArCove 1 - CW pixel 2** Cool white LED saturation control (0-100%)	proportional
1	5	0-255	**ArCove 2 - WW pixel 1** Warm white LED saturation control (0-100%)	proportional
2	6	0-255	**ArCove 2 - CW pixel 1** Cool white LED saturation control (0-100%)	proportional
1	7	0-255	**ArCove 2 - WW pixel 2** Warm white LED saturation control (0-100%)	proportional
2	8	0-255	**ArCove 2 - CW pixel 2** Cool white LED saturation control (0-100%)	proportional
	:			
1	37	0-255	**ArCove 10 - WW pixel 1** Warm white LED saturation control (0-100%)	proportional
2	38	0-255	**ArCove 10 - CW pixel 1** Cool white LED saturation control (0-100%)	proportional
1	39	0-255	**ArCove 10 - WW pixel 2** Warm white LED saturation control (0-100%)	proportional
2	40	0-255	**ArCove 10 - CW pixel 2** Cool white LED saturation control (0-100%)	proportional
	:			
1	65	0-255	**ArCove 17 - WW pixel 1** Warm white LED saturation control (0-100%)	proportional
2	66	0-255	**ArCove 17 - CW pixel 1** Cool white LED saturation control (0-100%)	proportional
1	67	0-255	**ArCove 17 - WW pixel 2** Warm white LED saturation control (0-100%)	proportional
2	68	0-255	**ArCove 17 - CW pixel 2** Cool white LED saturation control (0-100%)	proportional



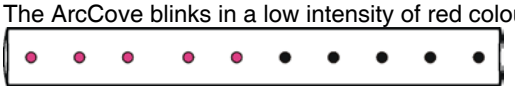
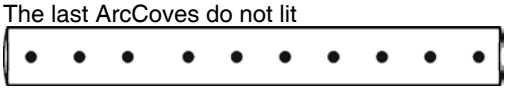
6. Power supply PLN-100-24 (Anolis registration name is the ArcCove Power MW)

The power supply PLN-100-24 serves for supply of the ArcCove DataBox which is a control unit for ArcCoves. The power supply is intended for fixed installation only.

Mounting:

1. Fasten the power supply PLN-100-24 on a non-flammable flat surface via two mounting slots of a diameter of 5mm in the housing.
2. Connect output wires (red wire= + 24V, black wire= -) to the ArcCove DataBox.
3. After checking the rest of connections (ArcCove DataBox - first ArcCove, ArcCoves-ArcCoves) connect the power supply PLN-100-24 to mains (brown wire= live, .blue wire= neutral, green/yellow wire = earth).

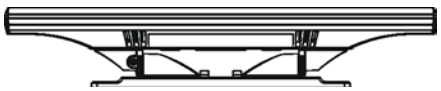
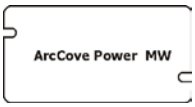
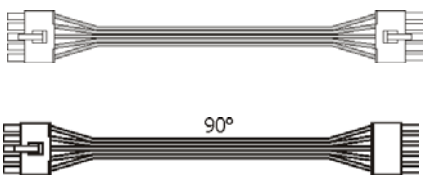
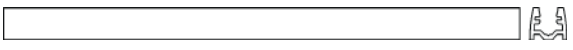
7. Error states

Description	Reason
The ArcCove blinks in a low intensity of red colour 	The ArcCove´s input and output are replaced. Connect this unit correctly.
The last ArcCoves do not lit 	Max. number of ArcCoves per one power supply is exceeded. Disconnect redundant ArcCoves.

8. ArcCove installation items overview

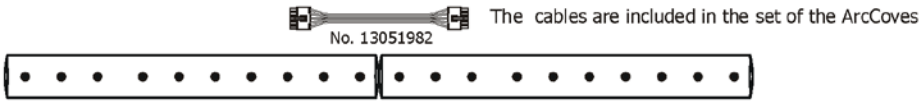
The customer has to specify needed items (and their quantity).

Each ArcCove Set includes: 17x ArcCove, 17x cable patch ArcCove 10 cm, 1x ArcCove Power MW, 1x ArcCove DataBox

ArcCoves ArcCove,RGB, Standard, Adjustable Tilt (No. 006 2591 - 17 pcs/box) ArcCove, SmartWhite, Standard - is available on request ArcCove , RGB, Straight, Low Profile (No. 1006 2592 - 17 pcs/box) ArcCove , SmartWhite, Straight, Low Profile - is available on request ArcCove , RGB, Rail mount (No. 1006 2593 - 17 pcs/box) ArcCove , SmartWhite, Rail mount- is available on request)	
Devices for control of the ArcCoves. ArcCove DataBox (No. 10062515) ArcCove DataBox SmartWhite (No. 1006 2574) *Wireless DMX variants:* ArcCove DataBox/W (No. 10062532) ArcCove DataBox SmartWhite/W (No. 1006 2575) *Note: One ArcCove DataBox can be used for 17 (8) ArcCoves according to the operating mode. Each set of the ArcCove modules (17 units in a box) includes corresponding ArcCove DataBox.*	
Power supply for ArCoves. Power supply PLN-100-24 alias ArcCove Power MW (No. 10062517) *Note: One power supply PLN-100-24can be used for 17 (8) ArcCoves according to the operating mode. Each set of the ArcCove modules (17 units in a box) includes one power supply*	
Connecting cable between the ArcCove DataBox and the first ArcCove. (Black covers of connectors) Cable connecting ArcCove 1m (No. 13071995) Cable connecting ArcCove 2m (No. 13071996) Cable connecting ArcCove 5m (No. 13071997) Cable connecting ArcCove 10m (No. 13071998)	
Connecting cables between ArcCoves.* Cable patch ArcCove 10 cm (No. 13051982) Cable patch ArcCove 15 cm (No. 13051989) Cable patch ArcCove 9.5 cm, 90° (No. 1305 2020) Cable patch ArcCove 12 cm, 90° (No. 13051990) Cable patch ArcCove 15 cm, 90° (No. 13051991) Cable patch ArcCove 30 cm, 90° (No. 13051994) *Note: each set of the ArcCove modules (17 units in a box) includes 17 pieces of the Cable patch ArcCove 10 cm (No. 13051982)*	
Mounting rail (only for the ArcCove, Rail Mount). Mounting Rail ArcCove 1.2m (No. 19030286) Mounting Rail ArcCove 2.4m (No. 19030267)	

* Proper cable length depends on the position of ArcCoves. For custom version of the connecting cables the distance between ArcCoves has to be specified as shown at next page.

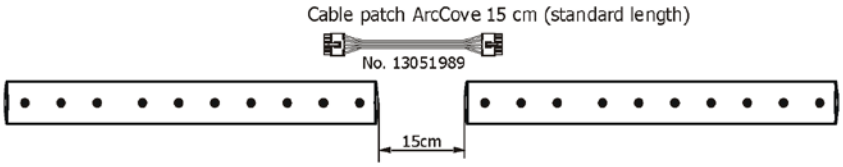
Cable patch ArcCove 10 cm (standard length)



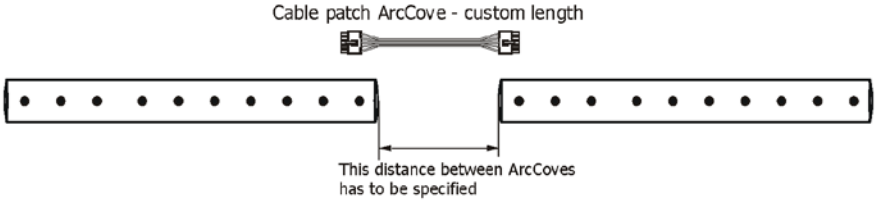
No. 13051982

The cables are included in the set of the ArcCoves

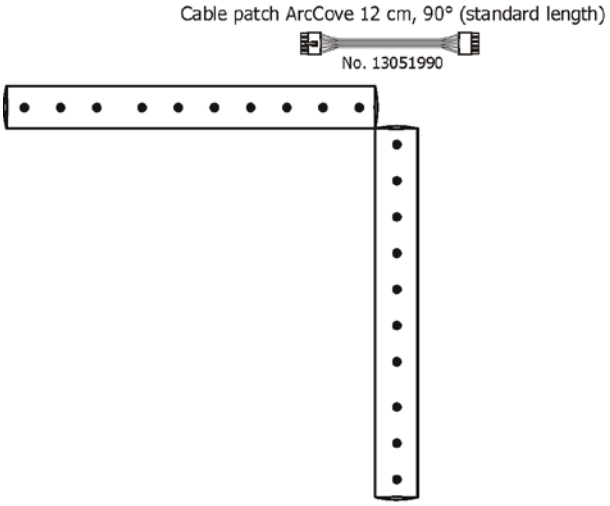
Cable patch ArcCove 15 cm (standard length)



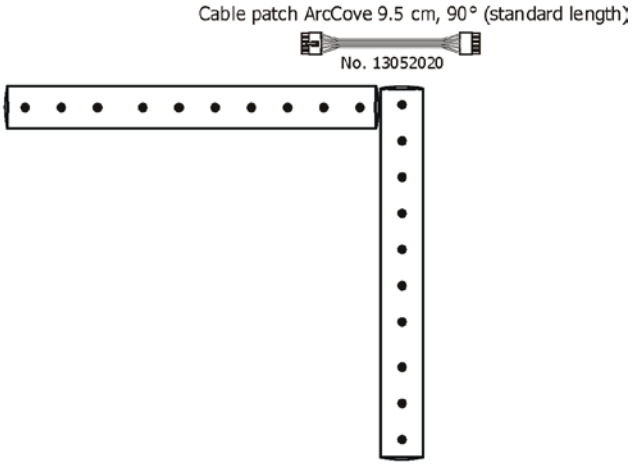
Cable patch ArcCove - custom length



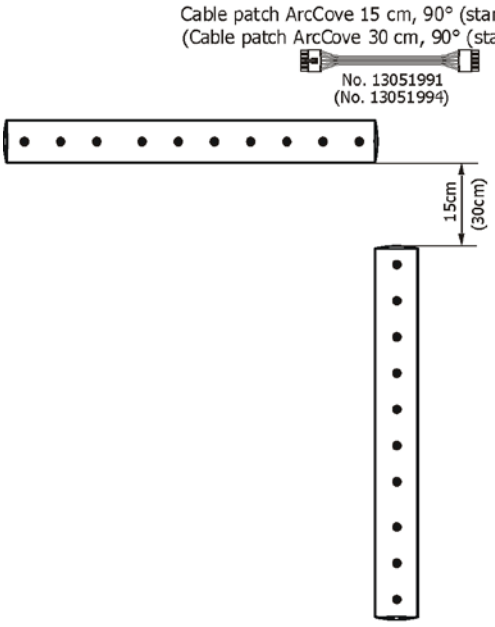
Cable patch ArcCove 12 cm, 90° (standard length)



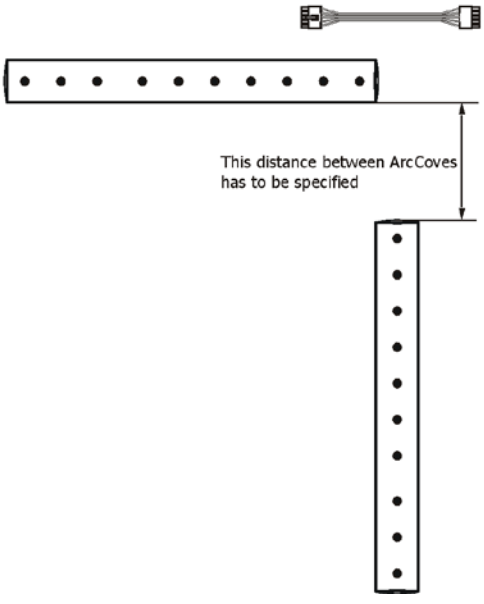
Cable patch ArcCove 9.5 cm, 90° (standard length)



Cable patch ArcCove 15 cm, 90° (standard length)
(Cable patch ArcCove 30 cm, 90° (standard length))



Cable patch ArcCove 90°- custom length



9. Technical specifications

ArcCove

Light source:	10 x 1W RGB multichip per fixture (group of five multichips creates one pixel)
Input voltage :	24 V DC
Maximum power consumption:	5W (Standard Mode), 10.8 W (High Power Mode) per fixture
Typical Lumen maintenance:	50000+ hours L50@ 50°C
Cooling system:	convection
Ambient operating temp.range:	-20°C/+40°C
Control electronics:	Internal chip protection against overheating Repeater included
Control channels:	6 per fixture (RGB,RGB)
Maximum units per one power supply:	17 (Standard Mode), 8 (High Power Mode)
Design:	Housing &Base: ABS Transparent cover: polycarbonate
Beam angle:	110° (at half beam)
Weight:	0.16 kg
Connection:	Integral In/Out connectors
Cable:	5 wire flat cable Ribbon UL2468 AWG 18/5C

ArcCove DataBox

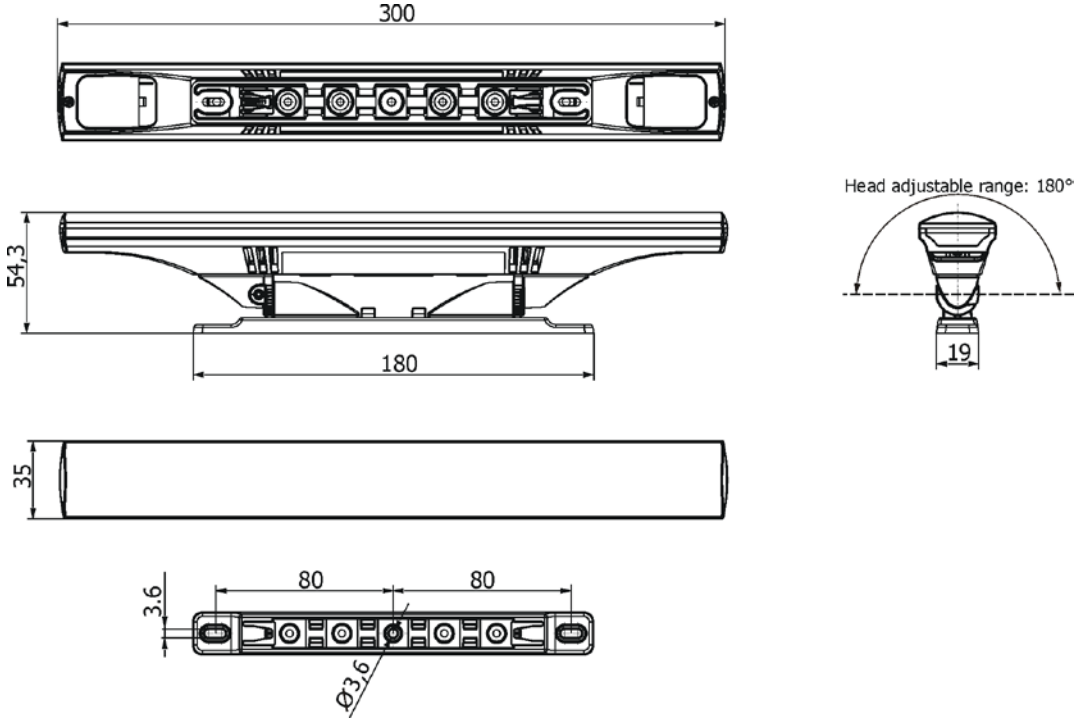
Control:	4-digit LED display & 4 buttons
Connection:	DMX&power: connection block ArcCove: integral connector
Weight:	0.15kg

Power supply PLN-100-24 (alias ArcCove Power MW)

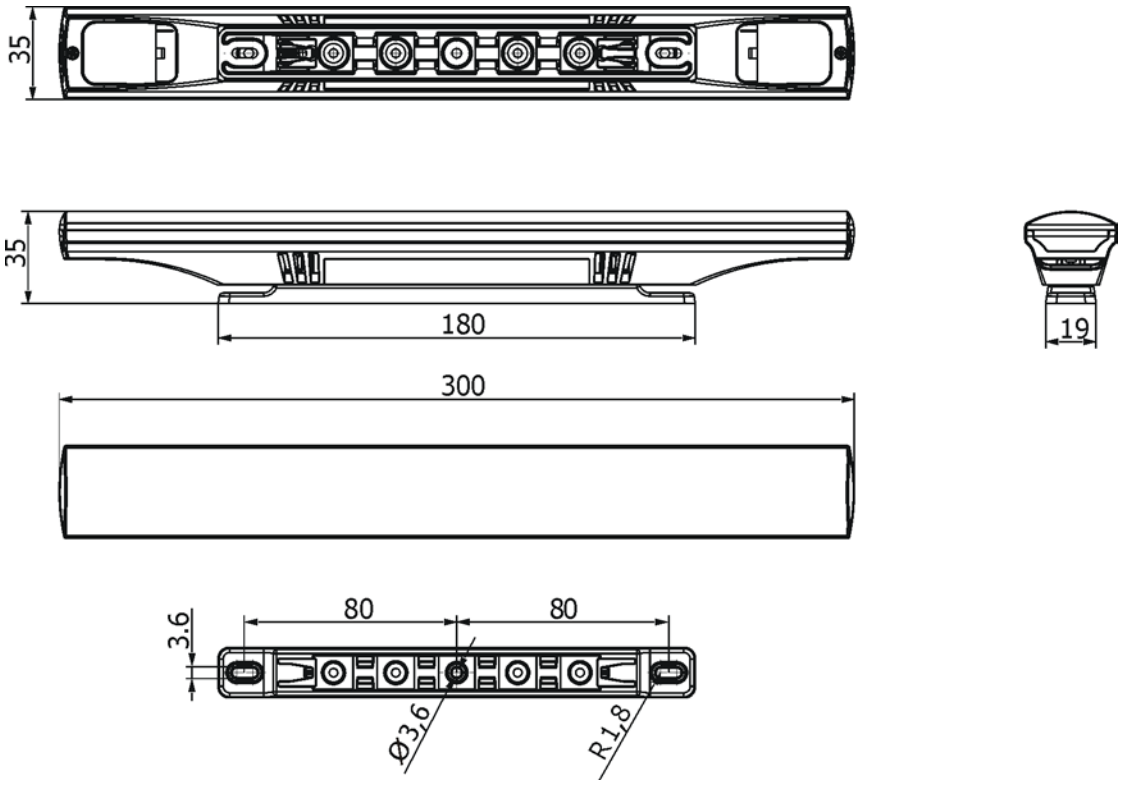
Input voltage:	100-240V AC; 50/60Hz
Output voltage:	24V DC
Rated current:	4A
Rated output power:	96W
Power factor:	>95
Protection:	Short circuit/ Overload / Over voltage / Over temperature
Cooling:	by free air convection
Connection:	Input - 3-wire cable 18AWG 3C, length=310mm Output - 2-wire cable 18AWG 2C, length=310mm
Weight:	0.52kg

10. Dimensions (mm)

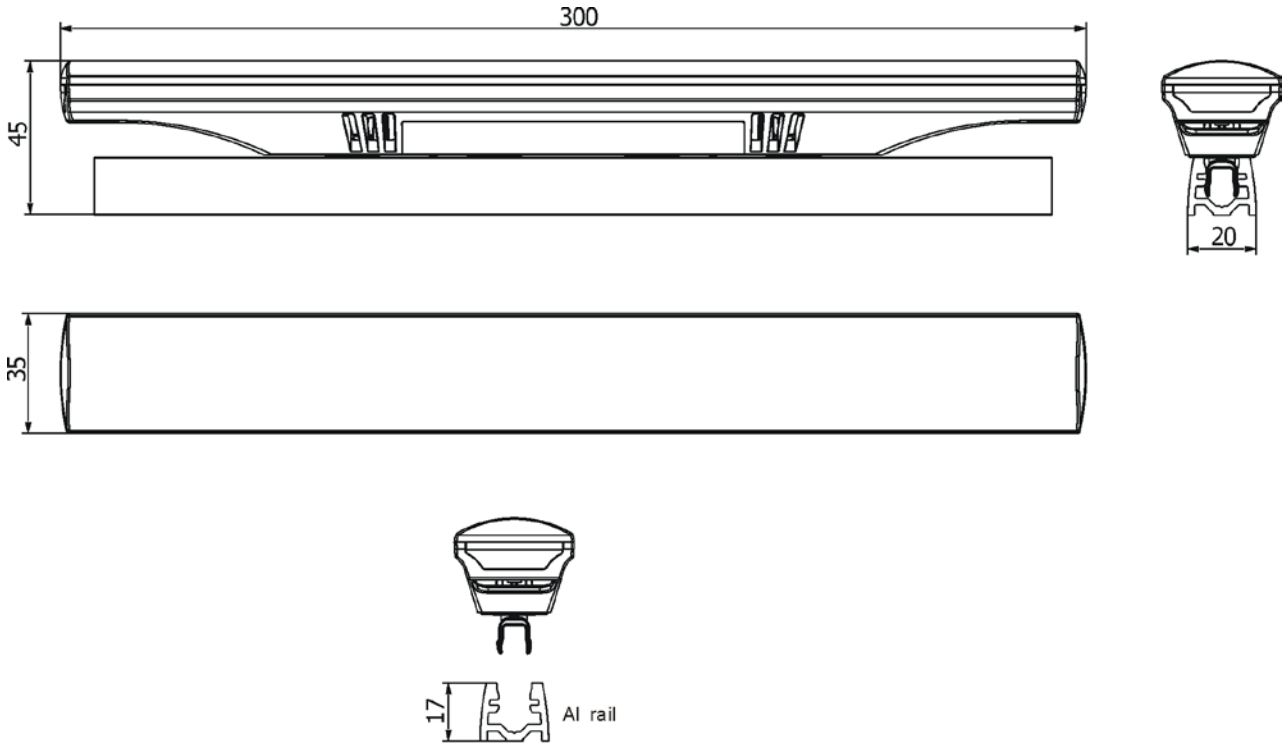
ArcCove, Standard, Adjustable Tilt

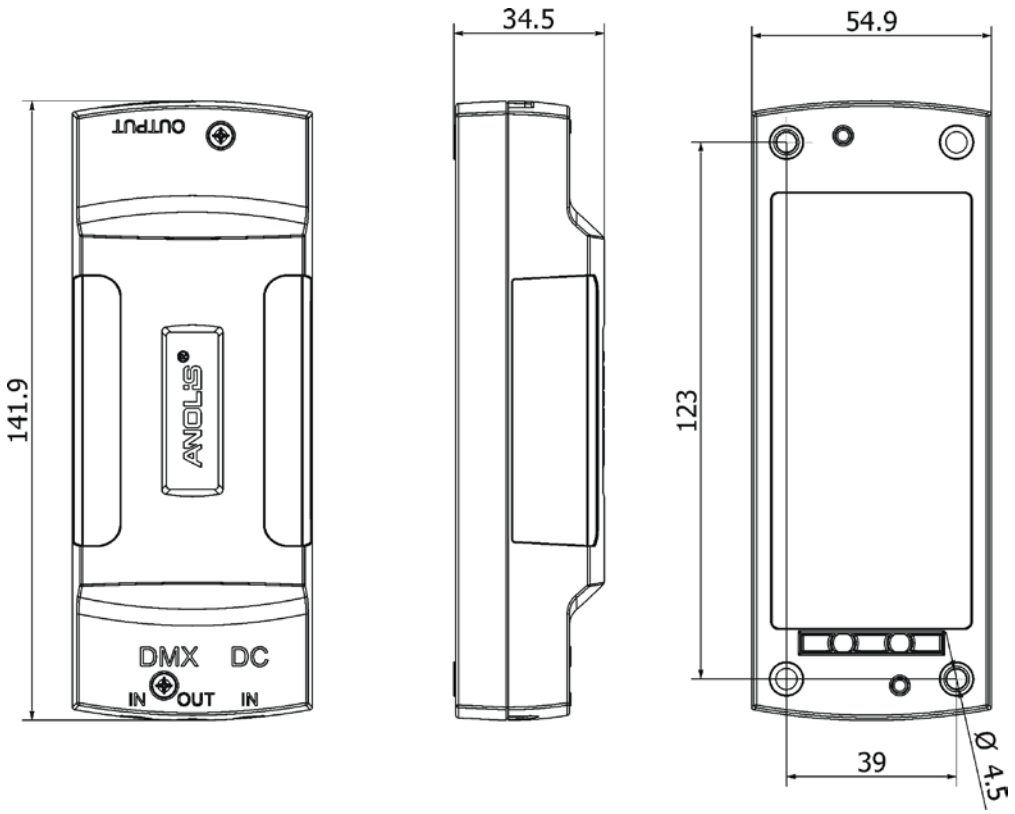


ArcCove, Straight, Low Profile

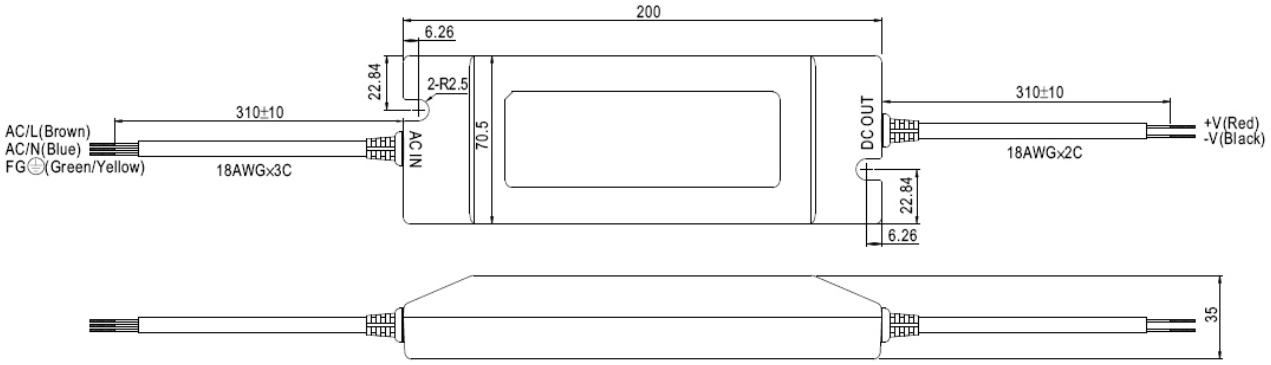


ArcCove, Rail Mount





Power supply PLN-100-24 (alias ArcCove Power MW)



Version 1.9
December 7, 2015
Specifications are subject to change without notice.